

ABSTRACT OF THE DISCLOSURE

An image processing apparatus has interpolation calculation means which outputs, based on an input image signal P7, a binary signal P8=0 or 1 by
5 calculating a formula, $P8=S[i](x1,y1) \text{ EXOR } (DF(x1,y1) \text{ AND } IP(x1,y1))$, using a screen pattern $S[i](x1,y1)$, a difference pattern $DF(x1a,y1a)$ based on screen patterns $S[i]$ and $S[i+1]$, and an interpolation pattern $IP(x1a,y1a)$.